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**Civil Engineering**

**ENERGY MANAGEMENT PROGRAM**



**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This instruction provides guidance for energy use by base personnel and defines energy management responsibilities of the Energy Management Steering Group (EMSG). It applies to all staff agencies and organizations on Fairchild AFB. This energy management program includes three primary types of energy: aircraft, vehicles, and utilities. Base personnel should seek methods of conserving these energies and thereby further national energy policy and obtain monetary savings. Energy conservation is essentially every person's responsibility and energy usage can be reduced by common sense and sound management.

**REFERENCES:** This instruction is written per AFD 23-3, Energy Management. Other references include MCI 11-235 Vol 10, FAFB Sup 1, LGTO Policy 77-30, and FAFBP 90-2.

**1. COMPLIANCE:** Energy management policy is assessed by taking measurements in two areas: Mobility Energy and Utility Energy.

**1.1. Mobility Energy:** Consists of actual fuel consumption for aircraft and vehicle operations. Measuring compliance with the policy for reducing mobility energy will be accomplished by assessing actual petroleum consumption. Measurement will be charted annually and compared to the FY85 baseline for aircraft operations and FY91 baseline for vehicle operations.

**1.2. Utility Energy:** Consists of utility consumption including electricity, natural gas, petroleum, coal and others. Utility consumption includes installation and industrial operations. Installation operations and industrial operations will be charted annually and compared to the FY85 baseline.

**2. POLICIES:**

2.1. The EMSG will coordinate all energy matters. The 92 CES/CEOE will be the office of primary responsibility for the EMSG, with the 92 ARW/CV as chairperson. The 92 LG and 92 OG are offices of coordinating responsibility.

The EMSG will consist of representatives from all major energy consuming activities as follows:

92 ARW/CV	92 LG/CC	92 TRNS/LGTO	2 SS/CC
92 SPTG/CC	92CES/CC/CEOE	92 ARW/PA	336 TRG/CC
92 OG/CC	92 SUPS/LGSF	92 MDG/CC	

2.2. The group will meet at the call of the chairperson to promote energy awareness, review energy program status and issues, identify to the commander necessary actions, ensure implementation of energy policies, directives and plans, and ensure effectiveness of the energy program.

2.3. EMSG meetings will occur semiannually.

### 3. RESPONSIBILITIES:

3.1. The 92 ARW/CV, Vice Wing Commander, will be the EMSG chairperson. The chairperson will be responsible for implementation and formulation of all energy policies and ensure the projects and programs of the base fulfill those policies.

3.2. The 92 CES/CEOE, Maintenance Engineering, will act as the Base Energy Manager and will ensure duties as outlined in AFD 23-3 are accomplished. The Base Energy Manager will arrange meetings and agendas and maintain correspondence and meeting minutes. The Base Energy Manager will coordinate closely with the EMSG chairperson.

3.3. The 92 OSS/OSW, Weather Flight, will brief the group on current weather and will compare recent weather with climatological averages. They will also brief on any long-range forecasts available.

3.4. The 92 LG will report on vehicle mobility energy consumption.

3.4.1. The 92 SUPS/LGSF is responsible to account for fuel usage basewide and is tasked to research fuel consumption and will report information to designated EMSG representative.

3.5. The 92 OG will report on aircraft mobility energy consumption.

3.6. The 92 CES will report on utility energy consumption.

3.7. All other members are expected to attend all meetings and report to their respective organizations on developments in energy policies and programs. All other members will also ensure sound energy management practices are utilized throughout the base.

### 4. UTILITY ENERGY CONSERVATION (OPR: 92 CE):

4.1. 92 CES/CEOE shall research methods of reducing utility energy consumption by purchasing efficient and cost effective equipment and replacing overpowered equipment with lower powered equipment, where warranted. The base shall increase utility energy efficiency through capital investments and improved operations.

**4.2. Electricity Conservation:** Base personnel shall make sure all lights and other electrical units are not used more than necessary.

**4.3. Heating and Air Conditioning Conservation:**

4.3.1. Any space not used at night, during weekends and holidays shall be heated to the lowest temperature or cooled to the highest temperature necessary for protection of health and property. When occupied, space heating shall be set at 70° F and space cooling at 78° F, except in data processing rooms which shall be 75° F. This paragraph does not apply to military family housing units and dormitories.

4.3.2. In base buildings, all heating and cooling controls shall be fixed and set by Civil Engineering and no one else.

4.3.3. In base buildings, mechanical rooms are off limits to unauthorized personnel.

4.3.4. When heating or air conditioning equipment are being used, all windows and doors shall be closed except for ingress or egress or where required for ventilation. If opened, heating or air conditioning shall be shut off.

4.3.5. In the case of a housing occupant on leave or TDY leaving the house empty, occupants shall set the thermostat to 50° F in the heating season. Occupants shall ensure the temperature is checked to prevent freeze-up while they are gone.

4.3.6. Hot water temperature for domestic and lavatory use shall be limited to 110° F, except in dining and dishwashing facilities which shall be 140° F or the manufacturer's recommended temperature. This paragraph does not apply to military family housing units and dormitories.

**5. MOBILITY ENERGY CONSERVATION:** The 92 LG and 92 OG are responsible for managing the mobility energy program. The 92 OG is responsible for monitoring aircraft fuel consumption and implementing efficient aircraft operating guidance. The 92 LG is responsible for managing, effectively maintaining and acquiring an energy efficient vehicle fleet.

**6. VEHICLE OPERATIONS FUEL CONSERVATION (OPR: 92 LG):**

6.1. The Vehicle Operations Flight shall implement LGTO Policy 77-30, Vehicles Operations Fuel Conservation and ensure the efficient and economical operation of the base vehicle fleet. This policy lists fleet management responsibilities, dispatch operations responsibilities and all personnel responsibilities.

6.1.1. Vehicle users shall be trained to conserve fuel by using appropriately sized vehicles, riding together if possible and scheduling to minimize number of trips and distance. The LG shall analyze transportation services to ensure they are cost effective, efficient and customer service oriented.

6.1.2. It shall be the responsibility of all personnel using Air Force vehicles to: ensure proper care, inspection and maintenance on vehicles are performed, ensure vehicle malfunctions are reported to vehicle maintenance and vehicle is made available for repairs, prevent misuse, abuse and damage to unit vehicles, and, enforce Air Force vehicle official use policies.

6.1.3. Other methods of reducing vehicle fuel consumption are by reducing idle time by turning vehicle off if waiting more than 3 minutes, not exceeding the speed limit and parking vehicles inside garages.

**7. AIRCRAFT OPERATIONS FUEL CONSERVATION (OPR: 92 OG):**

7.1. Energy efficiency in flying operations can be obtained by two methods: obtaining fuel-efficient aircraft and modifying flying operations to take advantage of fuel-efficient altitude and speed.

7.2. AFD 23-3 states energy efficiency will be incorporated into the decision-making process during the design and acquisition of aircraft.

7.3. The base must be concerned with managing flying operations. These modifications are included in MCI 11-235 Vol 10, FAFB Sup 1

#### **8. ENERGY CONSERVATION VIOLATIONS:**

8.1. Reporting energy conservation violations is every Air Force member's responsibility. Unit commanders, supervisors and facility managers are first in the line of action on energy conservation.

8.2. More than one violation of aforementioned energy conservation guidelines by a person in base housing can be grounds for removal from base housing. Reference FAFBP 90-2, Family Housing Pamphlet.

#### **9. ENERGY CONSERVATION SUGGESTIONS AND ACHIEVEMENTS:**

9.1. Energy conservation suggestions can be forwarded to 92 CES/CEOE at 7-5468.

9.2. Significant achievements of individuals and organizations for conserving aircraft, vehicle and utility energy shall be recognized and rewarded by the EMSG.

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Vice Commander